

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2013 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2085</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2085 Kasson</b>	<b>M</b>	<b>6.18</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.64		0.64	10.36%	0.05			
Encroachments					0.52	0.01		
Slope Stability	0.01		0.01	0.16%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.16%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	0.32%				
DWR UCIP Field Study					0.06	0.02		
<i>LMA Totals:</i>	0.68	0.00	0.68	11.00%	0.63	0.03	0.00	0.00

  

<b>Unit No. 01 San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>M</b>	<b>5.20</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.64		0.64	12.31%	0.05			
Encroachments					0.51	0.01		
Crown Surface / Depressions / Rutting	0.01		0.01	0.19%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	0.39%				
DWR UCIP Field Study					0.06	0.02		
<i>Unit Totals:</i>	0.67	0.00	0.67	12.89%	0.62	0.03	0.00	0.00

  

<b>Unit No. 02 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>A</b>	<b>0.69</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.01	0.00	0.00	0.00

  

<b>Unit No. 03 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>A</b>	<b>0.29</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Slope Stability	0.01		0.01	3.45%				
<i>Unit Totals:</i>	0.01	0.00	0.01	3.45%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2013 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2013 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	5.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/09/2013 - 04/09/2013		10/08/2013 - 10/08/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

# Reclamation District No. 2085 Kasson

10	1.18	1.18	Earthen Levee	Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 6-7 burrows present near levee toe.	37.715569 ° -121.290892 °	37.715569 ° -121.290892 °	40
DWR ID: DWR_RD2085_01_s_2012_40										

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
11	1.28	1.32	Earthen Levee	Encroachments	LS	M En	DT : Ditch Inspector Comments: Drainage ditch at levee toe.	37.714265 ° -121.289641 °	37.714056 ° -121.289069 °	6
DWR ID: DWR_RD2085_01_s_2012_6										
12	1.29	1.29	Earthen Levee	Encroachments	WSA/W	PI : Pipe En		37.714400 ° -121.289466 °	37.714400 ° -121.289466 °	21 Y
DWR ID: DWR_RD2085_01_s_2013_21										
13	1.35	1.35	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:19385 EP_NO: 3975 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. Large hole in ground over pipe on WS berm. Pipe rusted through on WS at river bank. No connection to pump on LS toe. FIELD_STRUCT_DESC: 10-inch steel stormdrain pipe through the levee 4-feet below the crown. Steel plate over pipe end at pump station on LS toe. Siphon breaker in 24-inch corrugated metal riser unit on the waterward shoulder (Permit No. 3975, 1962). Originally included in the 1968 O&M manual. FS Date: 9/5/2013	37.714049 ° -121.288426 °	37.714049 ° -121.288426 °	13 Y
DWR ID: DWR_RD2085_01_f_2013_13										
14	1.68	1.82	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.711917 ° -121.283089 °	37.710483 ° -121.281030 °	8 Y
DWR ID: DWR_RD2085_01_f_2013_8										
15	1.98	1.98	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:19423 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 8:22:24 AM	37.708826 ° -121.279271 °	37.708826 ° -121.279271 °	26 Y
DWR ID: DWR_RD2085_01_f_2013_26										
16	1.98	2.44	Earthen Levee	Encroachments	LS	M En	DT : Ditch Inspector Comments: Concrete-lined ditch near levee toe.	37.708737 ° -121.279087 °	37.703893 ° -121.274605 °	18
DWR ID: DWR_RD2085_01_s_2012_18										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

17	2.24	2.26	Supplemental	DWR Erosion Survey	WS Ma	Inspector Comments: 09/20/2013: No significant change observed. 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage. 09/22/2010: No significant changes observed. There is little visibility due to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2013 Site ID:RD2085U01RM66.5]	37.703094 ° 121.274894 °	37.703094 ° 121.274894 °	31 Y
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DWR ID:

18	2.51	2.51	Earthen Levee	Underseepage Relief Wells	LS Ob		37.702903 ° -121.274860 °	37.702903 ° -121.274860 °	20 Y
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DWR ID: DWR\_RD2085\_01\_s\_2012\_20

19	2.75	2.75	Supplemental	DWR UCIP Field Study	LS En	Inspector Comments: FS_ID:19431 EP_NO: 16970 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: The wooden walkway on the WS slope is in disrepair. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee 2.0 feet below the crown. Pump on wooden pier at WS slope. Siphon breaker visible next to steel bollard on LS slope. Power pole on LS toe. FS Date: 9/5/2013	37.699698 ° -121.276325 °	37.699698 ° -121.276325 °	27 Y
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DWR ID: DWR\_RD2085\_01\_f\_2013\_27

20	3.23	3.23	Supplemental	DWR UCIP Field Study	LS En	Inspector Comments: FS_ID:19432 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013	37.693627 ° -121.277608 °	37.693627 ° -121.277608 °	28 Y
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DWR ID: DWR\_RD2085\_01\_f\_2013\_28

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
21	3.23	3.23	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:19433 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013	37.693618 ° -121.277639 °	37.693618 ° -121.277639 °	29 Y
DWR ID: DWR_RD2085_01_f_2013_29										
22	3.28	3.28	Earthen Levee	Animal Control	WSA/W	Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.692916 ° -121.277929 °	37.692916 ° -121.277929 °	15 Y
DWR ID: DWR_RD2085_01_s_2012_15										
23	3.31	3.31	Earthen Levee	Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: No rodents visible, but numerous, >10, burrows on landside. 1 burrow on waterside.	37.692453 ° -121.278037 °	37.692453 ° -121.278037 °	44
DWR ID: DWR_RD2085_01_s_2012_44										
24	3.34	3.34	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:19435 EP_NO: 16970 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2 of 2: 10-inch steel stormdrain pipe through the levee 2-feet below the crown. Appears to connect to pump 150-feet off LS toe. Possible butterfly valve at LS toe. Vent on WS shoulder. Steel plate welded over pipe end on WS toe. FS Date: 9/5/2013	37.691966 ° -121.278122 °	37.691966 ° -121.278122 °	30 Y
DWR ID: DWR_RD2085_01_f_2013_30										
25	3.37	3.37	Earthen Levee	Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.691680 ° -121.277925 °	37.691680 ° -121.277925 °	47
DWR ID: DWR_RD2085_01_s_2012_47										
26	3.46	3.46	Earthen Levee	Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.690532 ° -121.276993 °	37.690532 ° -121.276993 °	16
DWR ID: DWR_RD2085_01_s_2012_16										
27	3.46	3.46	Earthen Levee	Animal Control	WS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.690532 ° -121.276993 °	37.690532 ° -121.276993 °	19
DWR ID: DWR_RD2085_01_s_2012_19										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
28	3.58	3.71	Supplemental	DWR Erosion Survey	WSA/W	Ma	Inspector Comments: 09/10/2013: No significant change observed. 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2013 Site ID:RD2085U01RM67.7]	37.688545 ° -121.276298 °	37.688545 ° -121.276298 °	38 Y
DWR ID: DWR_RD2085_01_s_2012_24										
29	3.72	3.72	Earthen Levee	Encroachments	CRA/W	En	PI : Pipe Inspector Comments: Discharge from River Club lake.	37.686977 ° -121.276804 °	37.686977 ° -121.276804 °	24 Y
DWR ID: DWR_RD2085_01_s_2012_24										
30	3.95	3.95	Earthen Levee	Encroachments	CRA/W	En	PI : Pipe	37.683445 ° -121.275848 °	37.683445 ° -121.275848 °	10 Y
DWR ID: DWR_RD2085_01_s_2012_10										
31	3.96	3.96	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:19443 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/5/2013	37.683642 ° -121.275792 °	37.683642 ° -121.275792 °	37 Y
DWR ID: DWR_RD2085_01_f_2013_37										
32	3.98	3.98	Earthen Levee	Animal Control	WS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.683403 ° -121.275372 °	37.683403 ° -121.275372 °	53 Y
DWR ID: DWR_RD2085_01_s_2012_53										
33	4.18	4.45	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.681886 ° -121.272333 °	37.681332 ° -121.267518 °	54 Y
DWR ID: DWR_RD2085_01_s_2012_54										
34	4.28	4.28	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.681752 ° -121.270542 °	37.681752 ° -121.270542 °	42 Y
DWR ID: DWR_RD2085_01_s_2013_42										
35	4.32	4.37	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	37.681863 ° -121.269856 °	37.681640 ° -121.269046 °	33 Y
DWR ID: DWR_RD2085_01_s_2012_33										
36	4.38	4.38	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps.	37.681605 ° -121.268882 °	37.681605 ° -121.268882 °	32 Y
DWR ID: DWR_RD2085_01_s_2012_32										
37	4.51	4.51	Earthen Levee	Encroachments	LS	M En	FW : Firewood	37.681158 ° -121.266587 °	37.681158 ° -121.266587 °	17 Y
DWR ID: DWR_RD2085_01_f_2013_17										

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
38	4.61	4.71	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.680394 ° -121.264707 °	37.676892 ° -121.269781 °	34
DWR ID: DWR_RD2085_01_s_ 2012_34										
39	4.70	4.70	Earthen Levee	Encroachments	WSA/W	En	BU : Building Inspector Comments: Monitoring station on waterward side.	37.679527 ° -121.265367 °	37.679527 ° -121.265367 °	36 Y
DWR ID: DWR_RD2085_01_s_ 2012_36										
40	4.70	4.70	Earthen Levee	Encroachments	LS A/W	En	ST : Stairway Inspector Comments: Stairs for monitoring station on landside slope.	37.679526 ° -121.265367 °	37.679526 ° -121.265367 °	35 Y
DWR ID: DWR_RD2085_01_s_ 2012_35										
41	4.93	4.93	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.677830 ° -121.268769 °	37.677830 ° -121.268769 °	22
DWR ID: DWR_RD2085_01_f_ 2013_22										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.43
End Levee Mile	0.46
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of tall vegetation on landside slope obstructing visibility.

mkhashch\_f\_20131009\_663.JPG



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pump on delapidated pier with no connection.

UCIP\_11725.jpg



Levee Mile Report Line	6
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Drainage discharge pipe penetrates levee with no closure device.

mkhashch\_f\_20130923\_347.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	6
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Opening on landside appears to consist of melted poly pipe halfway up levee slope. Opening on waterside is heavily corroded steel pipe.

mkhashch\_f\_20130923\_348.jpg



Levee Mile Report Line	6
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

04/28/2011 Area around discharge pipe appears to be in an area of erosion. Area was found after weeds were cleared.

mkhashch\_f\_20130923\_349.jpg



Levee Mile Report Line	7
Start Levee Mile	0.70
End Levee Mile	0.79
Location	Crown
Category	Earthen Levee
Item	Vegetation

View of tall vegetation along levee crown obstructing visibility.

mkhashch\_f\_20131009\_664.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	1.29
End Levee Mile	1.29
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pipe penetrating the waterside levee slope.

mkhashch\_f\_20130923\_357.JPG



Levee Mile Report Line	13
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe visible at bottom of ditch on LS toe.

UCIP\_11728.jpg



Levee Mile Report Line	14
Start Levee Mile	1.68
End Levee Mile	1.82
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of tall vegetation on waterside slope obstructing visibility.

mkhashch\_f\_20131009\_665.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	15
Start Levee Mile	1.98
End Levee Mile	1.98
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
Pipe cut at wooden pier. No pump on end of pier for this pipe.	
UCIP_11736.jpg	



Levee Mile Report Line	17
Start Levee Mile	2.24
End Levee Mile	2.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Close view of the erosion.	
SJR2013_RD2085U01RM66.5_2.jpg	



Levee Mile Report Line	19
Start Levee Mile	2.75
End Levee Mile	2.75
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
Pump on Wooden pier at WS slopoe.	
UCIP_11740.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	20
Start Levee Mile	3.23
End Levee Mile	3.23
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

UCIP\_11744.jpg



Levee Mile Report Line	22
Start Levee Mile	3.28
End Levee Mile	3.28
Location	Water Side
Category	Earthen Levee
Item	Animal Control

04/28/2011 Fresh burrow in center of picture, "porch" extends to the grass line.

mkhashch\_f\_20130923\_355.jpg



Levee Mile Report Line	24
Start Levee Mile	3.34
End Levee Mile	3.34
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Possible connection at pump 150-feet off LS toe.

UCIP\_11749.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2013

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	28
Start Levee Mile	3.58
End Levee Mile	3.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the erosion.

SJR2013\_RD2085U01RM67.7\_2.jpg



Levee Mile Report Line	30
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of pipe penetrating waterside slope.  
05/16/2012

mkhashch\_f\_20130923\_353.jpg



Levee Mile Report Line	30
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of siphon breaker valve on landside hinge.  
05/16/2012

mkhashch\_f\_20130923\_354.jpg



**\* Location**

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WS : Water Side  
CR : Crown

**\*\* Rating**

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	31
Start Levee Mile	3.96
End Levee Mile	3.96
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pumphouse and pipe visible on WS toe.

UCIP\_11754.jpg



Levee Mile Report Line	33
Start Levee Mile	4.18
End Levee Mile	4.45
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/03/2011 Waterside vegetation needs to be maintained on the top 20' of the waterside slope.

mkhashch\_f\_20130923\_375.jpg



Levee Mile Report Line	34
Start Levee Mile	4.28
End Levee Mile	4.28
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

View of rutting on waterside levee slope and crown.

mkhashch\_f\_20131009\_666.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	35
Start Levee Mile	4.32
End Levee Mile	4.37
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Updated photo of encroachments on landside toe.

mkhashch\_f\_20130923\_361.JPG



Levee Mile Report Line	36
Start Levee Mile	4.38
End Levee Mile	4.38
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/03/2011 Large stump on landside slope.

mkhashch\_f\_20130923\_360.jpg



Levee Mile Report Line	39
Start Levee Mile	4.70
End Levee Mile	4.70
Location	Water Side
Category	Earthen Levee
Item	Encroachments

04/28/2011 Monitoring station.

mkhashch\_f\_20130923\_363.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2013

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	40
Start Levee Mile	4.70
End Levee Mile	4.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments

04/28/2011 Stairs on landside slope for monitoring station.

mkhashch\_f\_20130923\_362.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2013 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	04/09/2013 - 04/09/2013		10/08/2013 - 10/08/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	10/08/2013 10/08/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.67	0.67	Earthen Levee	Encroachments	CR	M En	EQ : Equipment Inspector Comments: Heavy equipment is being stored on the levee crown.	37.713820 ° -121.269685 °	37.713820 ° -121.269685 °	1 Y

DWR ID: DWR\_RD2085\_02\_s\_2012\_1

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of farming equipment being stored on the levee crown at the end of the spur levee.

mkhashch\_f\_20131009\_668.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2013 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River				0.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	04/09/2013 - 04/09/2013		10/08/2013 - 10/08/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085			

**Summer & Winter Inspections**

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/08/2013 10/08/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	0.29	Earthen Levee	Vegetation	WS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.680705 ° -121.264343 °	37.683862 ° -121.262021 °	1
DWR ID: DWR_RD2085_03_s_ 2012_1										
2	0.20	0.20	Earthen Levee	Slope Stability	WS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Appears to be a fire break. Regrade levee slope to original condition.	37.682662 ° -121.262210 °	37.682662 ° -121.262210 °	4 Y
DWR ID: DWR_RD2085_03_f_ 2013_4										

**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/08/2013 10/08/2013	Maksim Khashchuk

Levee Mile Report Line	2
Start Levee Mile	0.20
End Levee Mile	0.20
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

View of a cut on waterside levee slope.

mkhashch\_f\_20131009\_670.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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